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IEE JNL IEE Journal or Magazine

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IEE CNF IEE Conference Proceeding

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IEE JNL IEE Journal or Magazine

IEEE CNF IEEE Conference Proceeding

IEE CNF IEE Conference Proceeding

IEEE STD IEEE Standard

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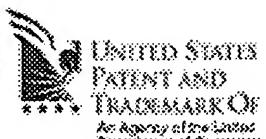
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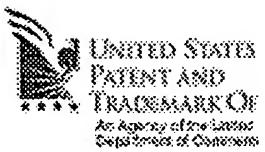
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**1** [A survey of image registration techniques](#)

Lisa Gottesfeld Brown

December 1992 **ACM Computing Surveys (CSUR)**, Volume 24 Issue 4Full text available: [pdf\(5.20 MB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Registration is a fundamental task in image processing used to match two or more pictures taken, for example, at different times, from different sensors, or from different viewpoints. Virtually all large systems which evaluate images require the registration of images, or a closely related operation, as an intermediate step. Specific examples of systems where image registration is a significant component include matching a target with a real-time image of a scene for target recognition, mon ...

Keywords: image registration, image warping, rectification, template matching**2** [Improving static and dynamic registration in an optical see-through HMD](#)

Ronald Azuma, Gary Bishop

July 1994 **Proceedings of the 21st annual conference on Computer graphics and interactive techniques**Full text available: [pdf\(321.33 KB\)](#) [ps\(1.65 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In Augmented Reality, see-through HMDs superimpose virtual 3D objects on the real world. This technology has the potential to enhance a user's perception and interaction with the real world. However, many Augmented Reality applications will not be accepted until we can accurately register virtual objects with their real counterparts. In previous systems, such registration was achieved only from a limited range of viewpoints, when the user kept his head still. This paper offers improved regi ...

Keywords: augmented reality, calibration, registration**3** [Texture mapping 3D models of real-world scenes](#)

Frederick M. Weinhaus, Venkat Devarajan

December 1997 **ACM Computing Surveys (CSUR)**, Volume 29 Issue 4Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#),

Full text available:  pdf(1.98 MB)[review](#)

Texture mapping has become a popular tool in the computer graphics industry in the last few years because it is an easy way to achieve a high degree of realism in computer-generated imagery with very little effort. Over the last decade, texture-mapping techniques have advanced to the point where it is possible to generate real-time perspective simulations of real-world areas by texture mapping every object surface with texture from photographic images of these real-world areas. The technique ...

Keywords: anti-aliasing, height field, homogeneous coordinates, image perspective transformation, image warping, multiresolution data, perspective projection, polygons, ray tracing, real-time scene generation, rectification, registration, texture mapping, visual simulators, voxels

4 [Session 6A: applications: The Techsat-21 autonomous space science agent](#)

Steve Chien, Rob Sherwood, Gregg Rabideau, Rebecca Castano, Ashley Davies, Michael Burl, Russell Knight, Tim Stough, Joe Roden, Paul Zetocha, Ross Wainwright, Pete Klupar, Jim Van Gaasbeck, Pat Cappelaere, Dean Oswald

July 2002 **Proceedings of the first international joint conference on Autonomous agents and multiagent systems: part 2**

Full text available:  pdf(1.32 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The Autonomous Sciencecraft Experiment (ASE) will fly onboard the Air Force TechSat-21 constellation of three spacecraft scheduled for launch in 2004. ASE uses onboard continuous planning, robust task and goal-based execution, model-based mode identification and reconfiguration, and onboard machine learning and pattern recognition to radically increase science return by enabling intelligent downlink selection and autonomous retargeting. In this paper we discuss how these AI technologies are syne ...

Keywords: mode identification, planning and scheduling, robust execution, science agent, space exploration agent

5 [A comprehensive calibration and registration procedure for the Visual Haptic Workbench](#)

Milan Ikits, Charles D. Hansen, Christopher R. Johnson

May 2003 **Proceedings of the workshop on Virtual environments 2003 EGVE '03**

Full text available:  pdf(578.80 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We present a simple yet efficient calibration and registration procedure for improving the overall static display accuracy of the Visual Haptic Workbench. The procedure is used for precisely colocating the visual and haptic workspaces of the system and is divided into three stages. First, we calibrate and register the PHANTOM to the display surface of the workbench. Second, we calibrate the tracking system by attaching a rigid extension between the tracker sensor and the PHANTOM stylus. Third, w ...

6 [Conference abstracts](#)

January 1977 **Proceedings of the 5th annual ACM computer science conference**

Full text available:  pdf(3.14 MB) Additional Information: [full citation](#), [abstract](#), [index terms](#)

One problem in computer program testing arises when errors are found and corrected after a portion of the tests have run properly. How can it be shown that a fix to one area of the code does not adversely affect the execution of another area? What is needed is a quantitative method for assuring that new program modifications do not introduce new errors into the code. This model considers the retest philosophy that every program instruction that could possibly be reached and tested from the ...

7 New techniques for presenting instructions and transcripts: Comparative effectiveness of augmented reality in object assembly

Arthur Tang, Charles Owen, Frank Biocca, Weimin Mou

April 2003 **Proceedings of the SIGCHI conference on Human factors in computing systems**

Full text available:  pdf(237.22 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Although there has been much speculation about the potential of Augmented Reality (AR), there are very few empirical studies about its effectiveness. This paper describes an experiment that tested the relative effectiveness of AR instructions in an assembly task.

Task information was displayed in user's field of view and registered with the workspace as 3D objects to explicitly demonstrate the exact execution of a procedure step. Three instructional media were compared with the AR system: a prin ...

Keywords: augmented reality, computer assisted instruction, human computer interaction, usability study

8 A novel scatternet scheme with IPv6 compatibility

Wei Kuang Lai, Der Hwa Tan

December 2003 **Mobile Networks and Applications**, Volume 8 Issue 6

Full text available:  pdf(486.86 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Some market analysts predict that there will be some 1.4 billion Bluetooth devices in operation by the year 2005 [8]. However, the current specification 1.1 does not describe the algorithms or mechanisms to create a scatternet due to a variety of unsolved issues [3,12]. Since the upper layers are not defined in Bluetooth, it is not possible to implement the scatternet in current specification. Hence in this research, we need make some modifications to Bluetooth protocol in order to support the t ...

Keywords: Bluetooth, IP, multicast, piconet, scatternet

9 An extensible approach to imagery of gridded data

Geoffrey Dutton

July 1977 **ACM SIGGRAPH Computer Graphics , Proceedings of the 4th annual conference on Computer graphics and interactive techniques**, Volume 11 Issue 2

Full text available:  pdf(3.19 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

A program offering a variety of cartographic techniques for mapping gridded data is described. Dot-distribution maps, several forms of contour maps and screen-toned maps are currently implemented for plotter and vector CRT. The structure and logic of the program is discussed and illustrated. The approach requires only local access to a data grid in a paging environment, allowing large data sets to be manipulated. Maps output may be plotted at any scale, irrespective of the size of the plotting d ...

Keywords: analytic hill-shading, cartography, contour mapping, device independence, dot-distribution mapping, gridded data, halftone imagery, inclined contour mapping, spatial analysis, spatial gradients, thematic mapping, vector graphics, virtual graphics, virtual memory

10

System architecture for billing of multi-player games in a wireless environment using GSM/UMTS and WLAN services

Frank Fitzek, Gerrit Schulte, Martin Reisslein

April 2002 **Proceedings of the 1st workshop on Network and system support for games**

Full text available:  [pdf\(147.81 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Games played by multiple users, each using a wireless terminal (e.g., PDA), have tremendous revenue potential for next generation wireless systems. However, the next generation of wireless systems (such as UMTS and other 3G systems) alone will not be able to provide the tight delay bounds required by these multi-player games. We develop a system architecture that enables high-quality games among multiple wireless users and at the same time enables network service providers and game service provi ...

Keywords: HOTSPOT, UMTS, WLAN, ad-hoc, authentication, billing, business case, gaming, multi-player games

11 Web3D in ocean science learning environments: virtual big beef creek



Bruce Campbell, Paul Collins, Hunter Hadaway, Nick Hedley, Mark Stoermer

February 2002 **Proceeding of the seventh international conference on 3D Web technology**

Full text available:  [pdf\(387.03 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The Virtual Reality Modeling Language (VRML), Java 3D software development packages, and World Wide Web (the Web) offer great potential for delivering three-dimensional, collaborative virtual environments to broad, on-line audiences. These capabilities have significant potential in ocean sciences, so a visualization environment was developed to explore these possibilities. The University of Washington's Virtual Big Beef Creek (VBBC) project has been continuously refined since its initial impleme ...

Keywords: VRML, interface paradigms, virtual environments, virtual geography, virtual worlds

12 The office of the future: a unified approach to image-based modeling and spatially immersive displays



Ramesh Raskar, Greg Welch, Matt Cutts, Adam Lake, Lev Stesin, Henry Fuchs

July 1998 **Proceedings of the 25th annual conference on Computer graphics and interactive techniques**

Full text available:  [pdf\(2.00 MB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: autocalibration, calibration, depth, display, image-based modeling, image-based rendering, intensity blending, projection, range, reflectance, spatially immersive display, virtual environments

13 Vertical handoffs in wireless overlay networks



Mark Stemm, Randy H. Katz

December 1998 **Mobile Networks and Applications**, Volume 3 Issue 4

Full text available:  [pdf\(770.58 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

No single wireless network technology simultaneously provides a low latency, high bandwidth, wide area data service to a large number of mobile users. Wireless Overlay Networks – a hierarchical structure of room-size, building-size, and wide area data networks – solve the problem of providing network connectivity to a large number of mobile

users in an efficient and scalable way. The specific topology of cells and the wide variety of network technologies that comprise wireless o ...

14 Terrain database interoperability issues in training with distributed interactive simulation 

Guy A. Schiavone, S. Sureshchandran, Kenneth C. Hardis

July 1997 **ACM Transactions on Modeling and Computer Simulation (TOMACS)**, Volume 7 Issue 3

Full text available:  pdf(443.34 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

In Distributed Interactive Simulation (DIS), each participating node is responsible for maintaining its own model of the synthetic environment. Problems may arise if significant inconsistencies are allowed to exist between these separate world views, resulting in unrealistic simulation results or negative training, and a corresponding degradation of interoperability in a DIS simulation exercise. In the DIS community, this is known as the simulator terrain database (TDB) correlation problem. ...

Keywords: distributed interactive simulation, terrain databases

15 GROUPKIT: a groupware toolkit for building real-time conferencing applications 

Mark Roseman, Saul Greenberg

December 1992 **Proceedings of the 1992 ACM conference on Computer-supported cooperative work**

Full text available:  pdf(938.94 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: development tools, real-time groupware, toolkit

16 Interactive posters: supporting design: Evaluating a sketch environment for novice programmers 

Beryl Plimmer, Mark Apperley

April 2003 **CHI '03 extended abstracts on Human factors in computing systems**

Full text available:  pdf(235.68 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper describes the evaluation of an electronic sketch interface design tool for novice programmers. A comparative study was undertaken with small groups using two different shared space environments; a conventional informal design environment and the pen based digital whiteboard. The students reacted positively to the electronic environment, where they worked informally with their design ideas and checked them more carefully.

Keywords: novice programmers, sketching, tool evaluation

17 Network layer access control for context-aware IPv6 applications 

Adrian Friday, Maomao Wu, Joe Finney, Stefan Schmid, Keith Cheverst, Nigel Davies

July 2003 **Wireless Networks**, Volume 9 Issue 4

Full text available:  pdf(3.57 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

As part of the Lancaster GUIDE II project, we have developed a novel wireless access point protocol designed to support the development of next generation mobile context-aware applications in our local environs. Once deployed, this architecture will allow ordinary citizens secure, accountable and convenient access to a set of tailored applications including location, multimedia and context based services, and the public Internet. Our architecture

utilises packet marking and network level packet ...

Keywords: authentication, mobile IPv6, public access point, security, wireless Internet

18 Future directions in visual display systems

Ed Lantz

May 1997 **ACM SIGGRAPH Computer Graphics**, Volume 31 Issue 2

Full text available:  pdf(1.06 MB) Additional Information: [full citation](#), [abstract](#), [index terms](#)

Visual displays have evolved in several parallel application areas including television, computer monitors, graphics monitors, portable displays, projection displays and most recently, immersive displays. Film, too, has matured as the highest resolution display medium available. One might mistakenly proclaim that today's visual displays produce an image quality which nearly matches that of our perception. The truth is that primitive cave petroglyphs viewed in fire-light far exceed the visual cap ...

19 Computer animation at Lawrence Livermore Laboratory

S. R. Levine

April 1975 **ACM SIGGRAPH Computer Graphics , Proceedings of the 2nd annual conference on Computer graphics and interactive techniques**, Volume 9 Issue 1

Full text available:  pdf(63.05 KB) Additional Information: [full citation](#)

20 Link and channel measurement: A simple mechanism for capturing and replaying wireless channels

Glenn Judd, Peter Steenkiste

August 2005 **Proceeding of the 2005 ACM SIGCOMM workshop on Experimental approaches to wireless network design and analysis E-WIND '05**

Full text available:  pdf(6.06 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Physical layer wireless network emulation has the potential to be a powerful experimental tool. An important challenge in physical emulation, and traditional simulation, is to accurately model the wireless channel. In this paper we examine the possibility of using on-card signal strength measurements to capture wireless channel traces. A key advantage of this approach is the simplicity and ubiquity with which these measurements can be obtained since virtually all wireless devices provide the req ...

Keywords: channel capture, emulation, wireless

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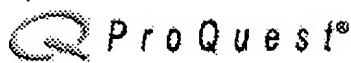
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1. Document ID: US 20050083243 A1

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L1: Entry 1 of 1

File: PGPB

Apr 21, 2005

PGPUB-DOCUMENT-NUMBER: 20050083243

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050083243 A1

TITLE: Control of overlay registration

PUBLICATION-DATE: April 21, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
<u>Middlebrooks, Scott A.</u>	Sandy	OR	US

US-CL-CURRENT: 343/797; 438/10

Term	Documents
MIDDLEBROOKS	94
MIDDLEBROOK	1001
REGISTRATION	127096
REGISTRATIONS	4880
OVERLAY	54392
OVERLAYS	23039
((MIDDLEBROOKS.IN.) AND (REGISTRATION ADJ OVERLAY)).PGPB,USPT.	1
(MIDDLEBROOKS.IN. AND REGISTRATION OVERLAY).PGPB,USPT.	1

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1. Document ID: US 20050083243 A1

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L3: Entry 1 of 17

File: PGPB

Apr 21, 2005

PGPUB-DOCUMENT-NUMBER: 20050083243

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050083243 A1

TITLE: Control of overlay registration

PUBLICATION-DATE: April 21, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Middlebrooks, Scott A.	Sandy	OR	US	

US-CL-CURRENT: 343/797; 438/10

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KOMC](#) | [Drawn Desc](#) | [Image](#)

2. Document ID: US 20040030492 A1

L3: Entry 2 of 17

File: PGPB

Feb 12, 2004

PGPUB-DOCUMENT-NUMBER: 20040030492

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040030492 A1

TITLE: Method and apparatus for geographic shape preservation for identification

PUBLICATION-DATE: February 12, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Fox, Jason	Thousand Oaks	CA	US	
Daily, Michael J.	Thousand Oaks	CA	US	

US-CL-CURRENT: 701/208; 340/995.1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Drawn Desc	Image
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 3. Document ID: US 6847888 B2

L3: Entry 3 of 17

File: USPT

Jan 25, 2005

US-PAT-NO: 6847888

DOCUMENT-IDENTIFIER: US 6847888 B2

TITLE: Method and apparatus for geographic shape preservation for identification

DATE-ISSUED: January 25, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Fox; Jason	Thousand Oaks	CA		
Daily; Michael J.	Thousand Oaks	CA		

US-CL-CURRENT: 701/208; 701/212, 707/100

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Drawn Desc	Image
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 4. Document ID: US 6825941 B1

L3: Entry 4 of 17

File: USPT

Nov 30, 2004

US-PAT-NO: 6825941

DOCUMENT-IDENTIFIER: US 6825941 B1

TITLE: Modular and extensible printer device driver and text based method for characterizing printer devices for use therewith

DATE-ISSUED: November 30, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Nguyen; Amanda	Bothell	WA		
Pandey; Ganesh	Kirkland	WA		
Scholten; Alvin	Redmond	WA		
Wu; Zhanbing	Bellevue	WA		
Shimizu; Eigo	Seattle	WA		
Wong; Peter	Woodinville	WA		

US-CL-CURRENT: 358/1.15; 358/1.13

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Drawn Desc	Image
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 5. Document ID: US 5998226 A

L3: Entry 5 of 17

File: USPT

Dec 7, 1999

US-PAT-NO: 5998226
DOCUMENT-IDENTIFIER: US 5998226 A

TITLE: Method and system for alignment of openings in semiconductor fabrication

DATE-ISSUED: December 7, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Chan; Victor	San Jose	CA		

US-CL-CURRENT: 438/10; 257/E21.53, 438/401, 438/975

Full	Title	Citation	Front	Review	Classification	Date	Reference							Claims	KMC	Draw Desc	Image
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 6. Document ID: US 5968607 A

L3: Entry 6 of 17

File: USPT

Oct 19, 1999

US-PAT-NO: 5968607
DOCUMENT-IDENTIFIER: US 5968607 A

TITLE: Device and method for etch and emboss process printing

DATE-ISSUED: October 19, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Lovison; Douglas I.	Rancho Santa Fe	CA		

US-CL-CURRENT: 427/511; 101/177, 101/211, 101/492, 427/258, 427/261, 427/278, 427/288

Full	Title	Citation	Front	Review	Classification	Date	Reference						Claims	KMC	Draw Desc	Image
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 7. Document ID: US 5067024 A

L3: Entry 7 of 17

File: USPT

Nov 19, 1991

US-PAT-NO: 5067024
DOCUMENT-IDENTIFIER: US 5067024 A
** See image for Certificate of Correction **

TITLE: Recording apparatus with control of stored overlapping form data for two sided printing

DATE-ISSUED: November 19, 1991

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
------	------	-------	----------	---------

Anzai; Katsuhiko

Ichihara

JP

US-CL-CURRENT: 358/296; 358/444

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMC	Draw Desc	Image
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□ 8. Document ID: US 4551015 A

L3: Entry 8 of 17

File: USPT

Nov 5, 1985

US-PAT-NO: 4551015

DOCUMENT-IDENTIFIER: US 4551015 A

TITLE: Overlay devices

DATE-ISSUED: November 5, 1985

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Goemans; Hermanus I.	Blerick			NL

US-CL-CURRENT: 355/75; 355/79

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMC	Draw Desc	Image
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□ 9. Document ID: US 4523188 A

L3: Entry 9 of 17

File: USPT

Jun 11, 1985

US-PAT-NO: 4523188

DOCUMENT-IDENTIFIER: US 4523188 A

TITLE: Automated map and display alignment

DATE-ISSUED: June 11, 1985

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Huber; William A.	Sea Girt	NJ		

US-CL-CURRENT: 345/641; 340/995.26, 345/178

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMC	Draw Desc	Image
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□ 10. Document ID: US 4403965 A

L3: Entry 10 of 17

File: USPT

Sep 13, 1983

US-PAT-NO: 4403965

DOCUMENT-IDENTIFIER: US 4403965 A
** See image for Certificate of Correction **

TITLE: Electronic teaching apparatus

DATE-ISSUED: September 13, 1983

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hawkins; William R.	Lubbock	TX		

US-CL-CURRENT: 434/327; 434/339, D19/60

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) |  |  |  | [Claims](#) | [KJMC](#) | [Drawn Desc](#) | [Image](#)

11. Document ID: US 3697687 A

L3: Entry 11 of 17

File: USPT

Oct 10, 1972

US-PAT-NO: 3697687

DOCUMENT-IDENTIFIER: US 3697687 A

** See image for Certificate of Correction **

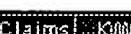
TITLE: ENCODING DEVICE

DATE-ISSUED: October 10, 1972

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Larson; Harry T.	Santa Ana	CA		
Loewe; Richard T.	Santa Ana	CA		

US-CL-CURRENT: 178/18.01

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) |  |  |  | [Claims](#) | [KJMC](#) | [Drawn Desc](#) | [Image](#)

12. Document ID: US 3690754 A

L3: Entry 12 of 17

File: USPT

Sep 12, 1972

US-PAT-NO: 3690754

DOCUMENT-IDENTIFIER: US 3690754 A

TITLE: CONTROL SYSTEM FOR AN OPTICAL IMAGING SYSTEM

DATE-ISSUED: September 12, 1972

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Urbanek; Edwin A.	Penfield	NY		

US-CL-CURRENT: 399/131; 355/69[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Claims](#) | [KUMC](#) | [Drawn Desc](#) | [Image](#) 13. Document ID: US 3656847 A

L3: Entry 13 of 17

File: USPT

Apr 18, 1972

US-PAT-NO: 3656847

DOCUMENT-IDENTIFIER: US 3656847 A

TITLE: ELEVATOR MECHANISM

DATE-ISSUED: April 18, 1972

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Egnaczak; Raymond K.	Williamson	NY		
Myers; Charles H.	Palmyra	NY		
Zawadzki; Edward A.	Marion	NY		

US-CL-CURRENT: 399/131[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Claims](#) | [KUMC](#) | [Drawn Desc](#) | [Image](#) 14. Document ID: US 3647290 A

L3: Entry 14 of 17

File: USPT

Mar 7, 1972

US-PAT-NO: 3647290

DOCUMENT-IDENTIFIER: US 3647290 A

TITLE: PHOTOELECTROPHORETIC IMAGING SYSTEM

DATE-ISSUED: March 7, 1972

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Egnaczak; Raymond K.	Williamson	NY		
Squassoni; Gino F.	Pittsford	NY		

US-CL-CURRENT: 399/131; 399/177[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Claims](#) | [KUMC](#) | [Drawn Desc](#) | [Image](#) 15. Document ID: US 3645616 A

L3: Entry 15 of 17

File: USPT

Feb 29, 1972

US-PAT-NO: 3645616
DOCUMENT-IDENTIFIER: US 3645616 A

TITLE: PHOTOELECTROPHORETIC IMAGE TRANSFER APPARATUS

DATE-ISSUED: February 29, 1972

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Egnaczak; Raymond K.	Williamson	NY		

US-CL-CURRENT: 399/131

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | | | [Claims](#) | [KMC](#) | [Drawn Desc](#) | [Image](#)

16. Document ID: US 3640616 A

L3: Entry 16 of 17

File: USPT

Feb 8, 1972

US-PAT-NO: 3640616
DOCUMENT-IDENTIFIER: US 3640616 A

TITLE: OPAQUE ILLUMINATION AND SCANNING SYSTEM

DATE-ISSUED: February 8, 1972

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Egnaczak; Raymond K.	Williamson	NY		
Squassoni; Gino F.	Pittsford	NY		

US-CL-CURRENT: 399/131; 355/51, 355/66, 355/70, 399/206

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | | | [Claims](#) | [KMC](#) | [Drawn Desc](#) | [Image](#)

17. Document ID: US 3623805 A

L3: Entry 17 of 17

File: USPT

Nov 30, 1971

US-PAT-NO: 3623805
DOCUMENT-IDENTIFIER: US 3623805 A

TITLE: DRIVE MECHANISM FOR IMAGING APPARATUS

DATE-ISSUED: November 30, 1971

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Egnaczak; Raymond K.	Williamson	NY		
Myers; Charles H.	Palmyra	NY		

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L5: Entry 1 of 1

File: PGPB

Apr 21, 2005

PGPUB-DOCUMENT-NUMBER: 20050083243

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050083243 A1

TITLE: Control of overlay registration

PUBLICATION-DATE: April 21, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Middlebrooks, Scott A.	Sandy	OR	US	

US-CL-CURRENT: 343/797; 438/10

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Term	Documents
HORIZON	12519
HORIZONS	3290
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(L4 AND HORIZON).PGPB,USPT.	1

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